UNITED STATES PATENT AND TRADEMARK OFFICE			UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,511	01/02/200,4	Mahnaz Jahedi	03128CONT	8685
23338 7590 06/29/2005			EXAMINER	
DENNISON, SCHULTZ, DOUGHERTY & MACDONALD			TRAN, LEN	
1727 KING ST SUITE 105	REET		ART UNIT	PAPER NUMBER
	ALEXANDRIA, VA 22314		1725	· · · · ·
· .			DATE MAILED: 06/29/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	$\backslash$		
	Application No.	Applicant(s)	
	10/749,511	JAHEDI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Len Tran	1725	
The MAILING DATE of this communication	n appears on the cover sheet	with the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communicatio - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	DN. FR 1.136(a). In no event, however, may n. a reply within the statutory minimum of t eriod will apply and will expire SIX (6) M statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on (	<u> 2004. 02 January 2004</u>		
2a) This action is <b>FINAL</b> . 2b)⊠	This action is non-final.		
3) Since this application is in condition for all	•	· •	
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C	.D. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-14 and 18-32</u> is/are pending in	the application.		
4a) Of the above claim(s) is/are with	ndrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-14,18-32</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exar	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b) objected t	o by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	•	•••••••••••••••••••••••••••••••••••••••	•
11) The oath or declaration is objected to by th	e Examiner. Note the attach	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for	eign priority under 35 U.S.C	§ 119(a)-(d) or (f).	
a) All b) Some * c) None of:			
1. Certified copies of the priority docun	nents have been received.		
2. Certified copies of the priority docun	nents have been received in	Application No	•
3. Copies of the certified copies of the		n received in this National Stage	
application from the International Bu			
* See the attached detailed Office action for a	a list of the certified copies no	ot received.	
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) 🗌 Interview	v Summary (PTO-413)	
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948	3) Paper N	o(s)/Mail Date	
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date</li> </ol>	B/08) 5) 🚺 Notice o 6) 🛄 Other:	f Informal Patent Application (PTO-152)	
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Offic	ce Action Summary	Part of Paper No./Mail Date 06252005	

K

.

h

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-14, 18-26, and 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Clingman et al (US 4,269,903).

As to claims 1-4, 18-21, and 28-32, Clingman et al disclose a die coating on the metal mold, wherein the coating including a porous layer of ceramic material, wherein the ceramic is oxides powder (col. 1, lines 45-65).

As to claim 5 and 6, the polymer is thermoplastic (col. 1, line 57).

As to claim 7, the particle size is not less than 1 micron and not more than 60 micron (col. 3, line 51).

As to claims 8-14, Clingman et al disclose a process for providing a coating on the die comprising the steps of forming an initial coating of organic polymer and ceramic material by co-deposition of powders by thermal spraying, plasma spraying, and heating the coating to remove the polymer (col. 1, line 52 - col. 2, line 50), wherein the thickness is about 250 to 400 micron (col. 3, line 29).

As to claims 22-26, Clingman disclose a metal mold coated in a section with non-porous ceramic die coating and in another section, with a die coating including a porous layer using

Application/Control Number: 10/749,511 Art Unit: 1725

thermal spraying (col. 1, lines 50-65 and figure). The heating temperature can be heated up to

450 degrees C to remove the polymer material.

## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clingman et al (US '903).

Clingman et al disclose the claimed invention, but lacks the disclosure of heating up to 450 degrees. However, it would have been obvious to one of ordinary skill in the art at the time

Application/Control Number: 10/749,511 Art Unit: 1725

applicant's invention was made to heat up to 450 degrees in order to melt the entire polymer coating.

## Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The Len Tran Examiner Art Unit 1725

June 25, 2005